

1

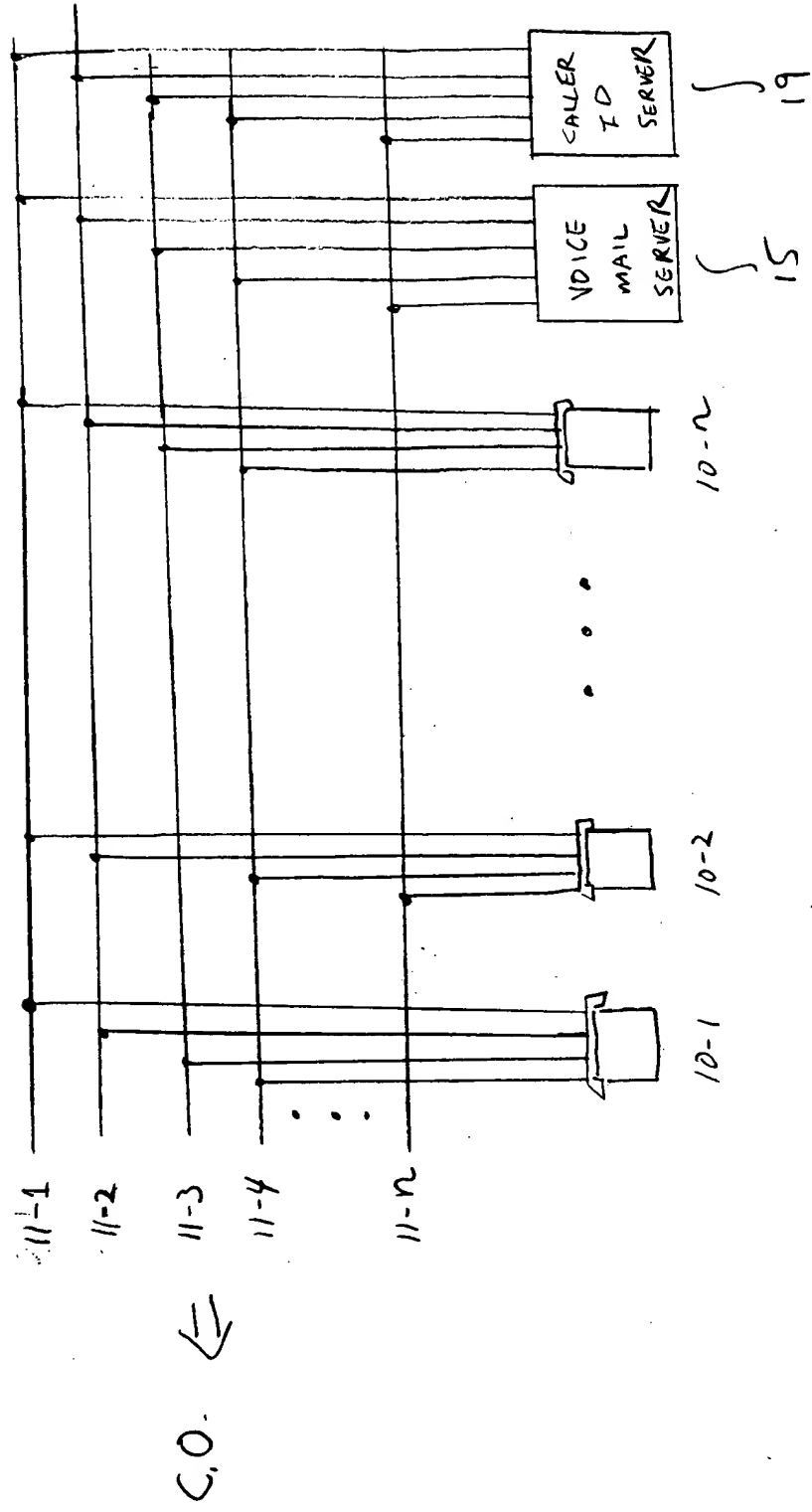


FIG. 1

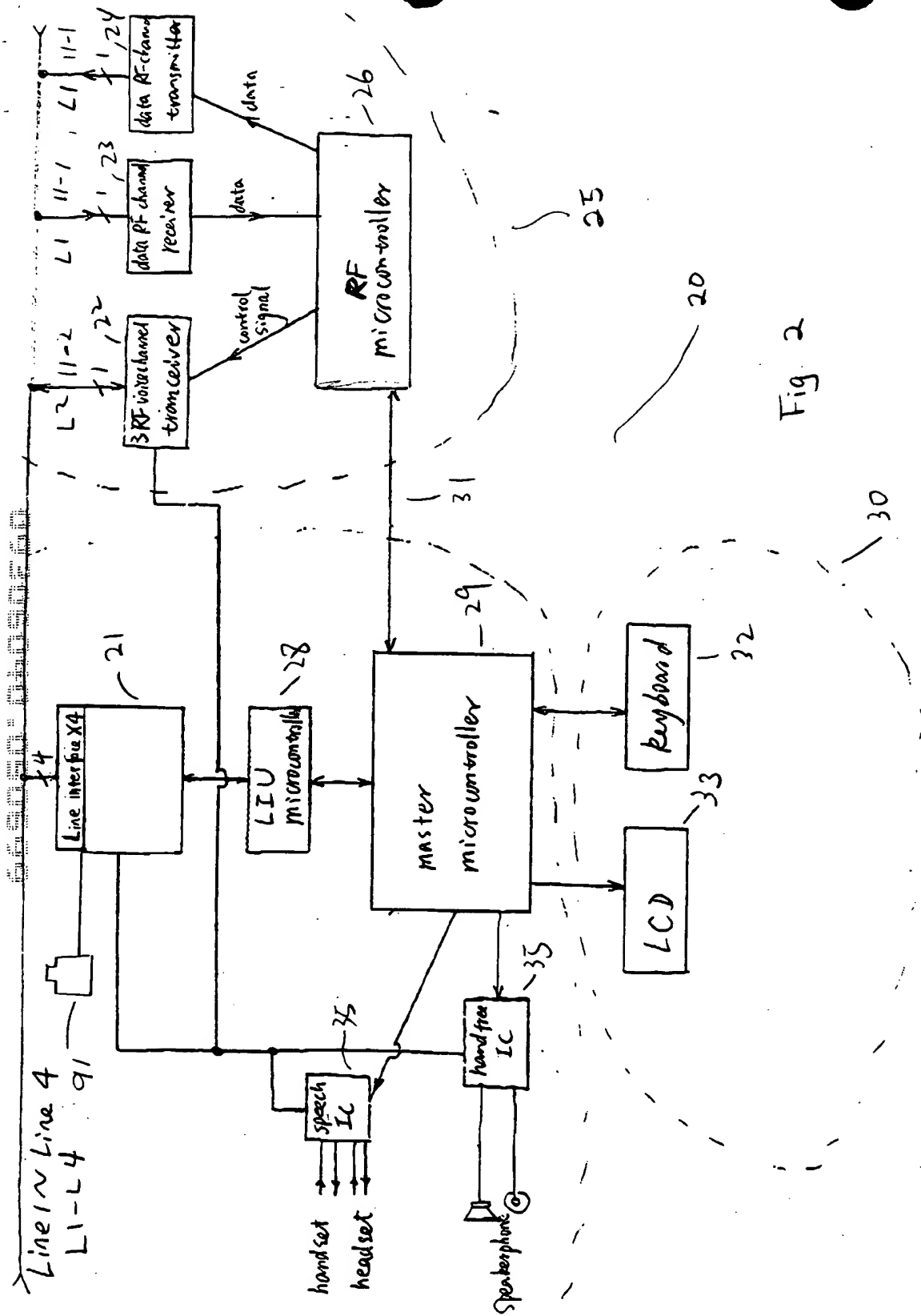


Fig. 2

Channel Type		Frequency	Max. Power (135 ohms)	Residual FM	Distortion	Spurious	Max. Deviation
Data	Transmit	319/331 KHz	-10 dBm	N/A	N/A	-50 dB	+/-5 KHz
Channel Type		Frequency	12dB sinad sensitivity (135 ohms)	3dB bandwidth	Distortion	20dB quieting sense	Adjacent Channel
Data	Receive	319/331 KHz	N/A	15 KHz +/- 2KHz	N/A	N/A	-50dB

Fig. 3B

Channel Type		Frequency	Max. Power (135 ohms)	Residual FM	Distortion	Spurious	Max. Deviation
Audio (Page)	Transmit	390 KHz	-10 dBm	< 200Hz	3% at 1 KHz	-50 dB	+/-5 KHz
Audio (Intercom)	Originate	420 KHz	-10 dBm	< 200Hz	3% at 1 KHz	-50 dB	+/-5 KHz
Audio (Intercom)	Answer	360 KHz	-10 dBm	< 200Hz	3% at 1 KHz	-50 dB	+/-5 KHz

Channel Type		Frequency	12dB sinad sensitivity (135 ohms)	3dB bandwidth	Distortion	20dB quieting sense	Adjacent Channel
Audio (Page)	Receive	390 KHz	-65 dBm	15 KHz +/- 2KHz	3% at 1KHz	-65 dBm	-50dB
Audio (Intercom)	Answer	420 KHz	-65 dBm	15 KHz +/- 2KHz	3% at 1KHz	-65 dBm	-50dB
Audio (Intercom)	Originate	360 KHz	-65 dBm	15 KHz +/- 2KHz	3% at 1KHz	-65 dBm	-50dB

Fig. 3A

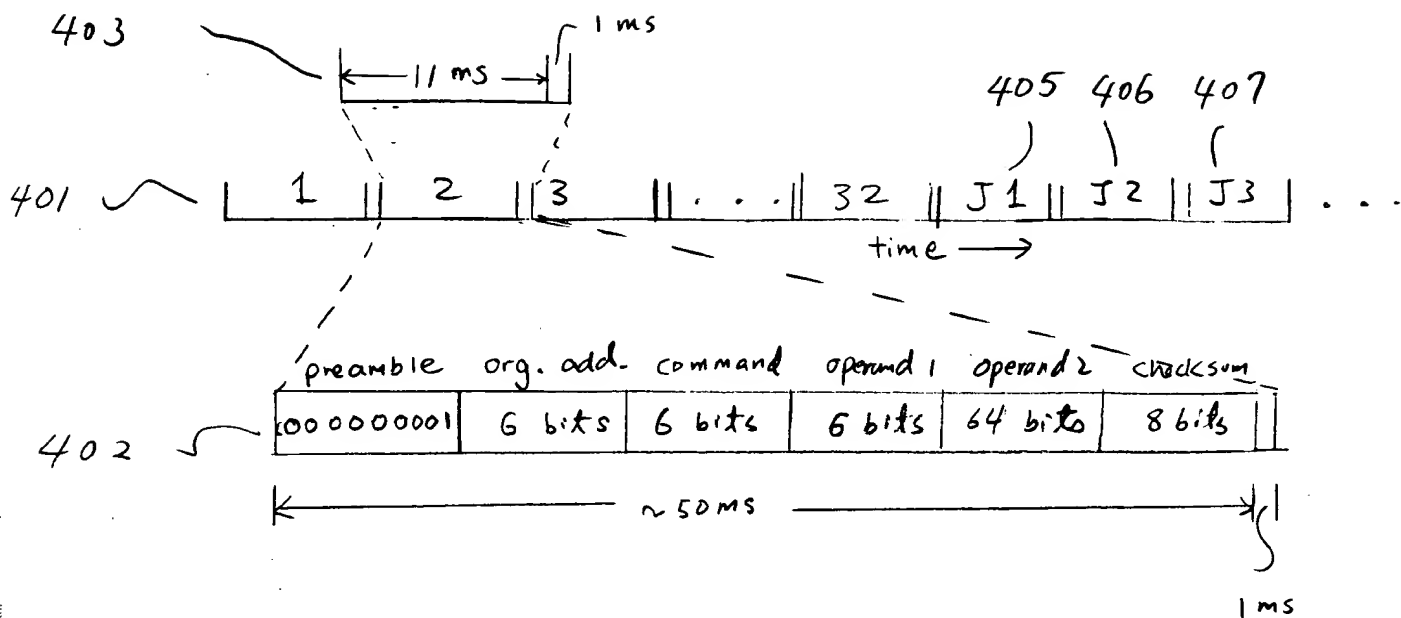


FIG. 4

Where:  
 0 or 1 — don't care in receiving side  
 n — from 0 to 31, i.e. 32 users maximum  
 31 - 33 are dedicated for new user to join in, say join-in slots

L6, L5, L4, L3, L2, L1 — = 1, line active; = 0, line inactive  
 EXT # — 4 decimal digits (configuration: 4th, 3rd, 2nd, 1st digits to form an ext #)  
 if ext# is inapplicable, set C, C, C, C for an empty extension

Join in slot - 31 to 33  
 Join in ID - 0 to 30

Message waiting on / off (extension), Transfer on  
 - support one line at one command.

Fig. 5

	Orig. addr 6 bits	command 6 bits	operand1 6 bits	operand2 64 bits	check sum 8 bits
<b>BROADCAST</b>					
Line on hold	n	LINE ON HOLD	L6, L5, L4, L3, L2, L1	4 EXT # - L6, L5, L4, L3 (4 digits each)	
Line in use	n	LINE IN USE	L6, L5, L4, L3, L2, L1	4 EXT # - L6, L5, L4, L3 (4 digits each)	
Line secure	n	LINE SEC	L6, L5, L4, L3, L2, L1	4 EXT # - L6, L5, L4, L3 (4 digits each)	
Line secure release	n	LINE SEC REL	L6, L5, L4, L3, L2, L1	4 EXT # - L6, L5, L4, L3 (4 digits each)	
Message waiting on (extension)	n	M WAIT ON (extension)	0	EXT # (4 digits), 000000L2 L1, 0	
Message waiting off (extension)	n	M WAIT OFF (extension)	0	EXT # (4 digits), 000000L2 L1, 0	
Join	Join in slot	JOIN	join in ID	0,0,0,0	
Caller ID	n	CALLER ID	CALLER ID PACKET #	INFORMATION	
Pass Through	n	PASS THRU	PASS THRU' OPERAND 1	PASS THRU' OPERAND 2	
<b>PARTNERSHIP</b>					
Transfer on	n	TFR ON	DEST. ADR	EXT # (4 digits), 000000L2 L1, Mail ID, 0	
Transfer off	n	TFR OFF	L6, L5, L4, L3, L2, L1	4 EXT # - L6, L5, L4, L3 (4 digits each)	
Intercom on	n	ICM ON	DEST. ADR	ICM PICK UP INDICATION, 0,0,0	
Intercom off	n	ICM OFF	DEST. ADR	0,0,0,0	
Acknowledge	n	ACK	DEST. ADR	0,0,0,0	
Access deny	n	DENY	DEST. ADR	000000 NO EXT # BUSY, 0,0,0	
DND	n	DND	DEST. ADR	000000 OVERRIDE	
(destination)		(destination)			
Message waiting off (destination)	n	M WAIT OFF (destination)	DEST. ADR	0,0,0,0	
RAM access request	n	RAM ACCESS REQUEST	DEST. ADR	RAM REQUEST, ADDR., DATA	
RAM access response	n	RAM ACCESS RESPONSE	DEST. ADR	RAM RESPONSE, ADDR., DATA	
<b>EXTENDED COMMAND</b>					
Reject	n	EXT. COM	REJECT	0,0,0,0	
No action change	n	EXT. COM	NO CHANGE	0,0,0,0	
Page on	n	EXT. COM	PAGE ON	GROUP, 0	
Page off	n	EXT. COM	PAGE OFF	0,0,0,0	
Intercom in use	n	EXT. COM	ICM IN USE	ICM CALLED ID, ICM IN TALKING INDICATION, 0,0,0	
Music Available	n	EXT. COM	MUSIC AVAILABLE	0,0,0,0	
Music Unavailable	n	EXT. COM	MUSIC UNAVAILABLE	0,0,0,0	
Supervisory Call	n	EXT. COM	SUPERVISORY CALL	0,0,0,0	
Supervisory Call Confirmation	n	EXT. COM	SUPERVISORY CALL CONFIRMATION	0,0,0,0	
Supervisory Call End	n	EXT. COM	SUPERVISORY CALL END	0,0,0,0	

501

502

505

511

505a

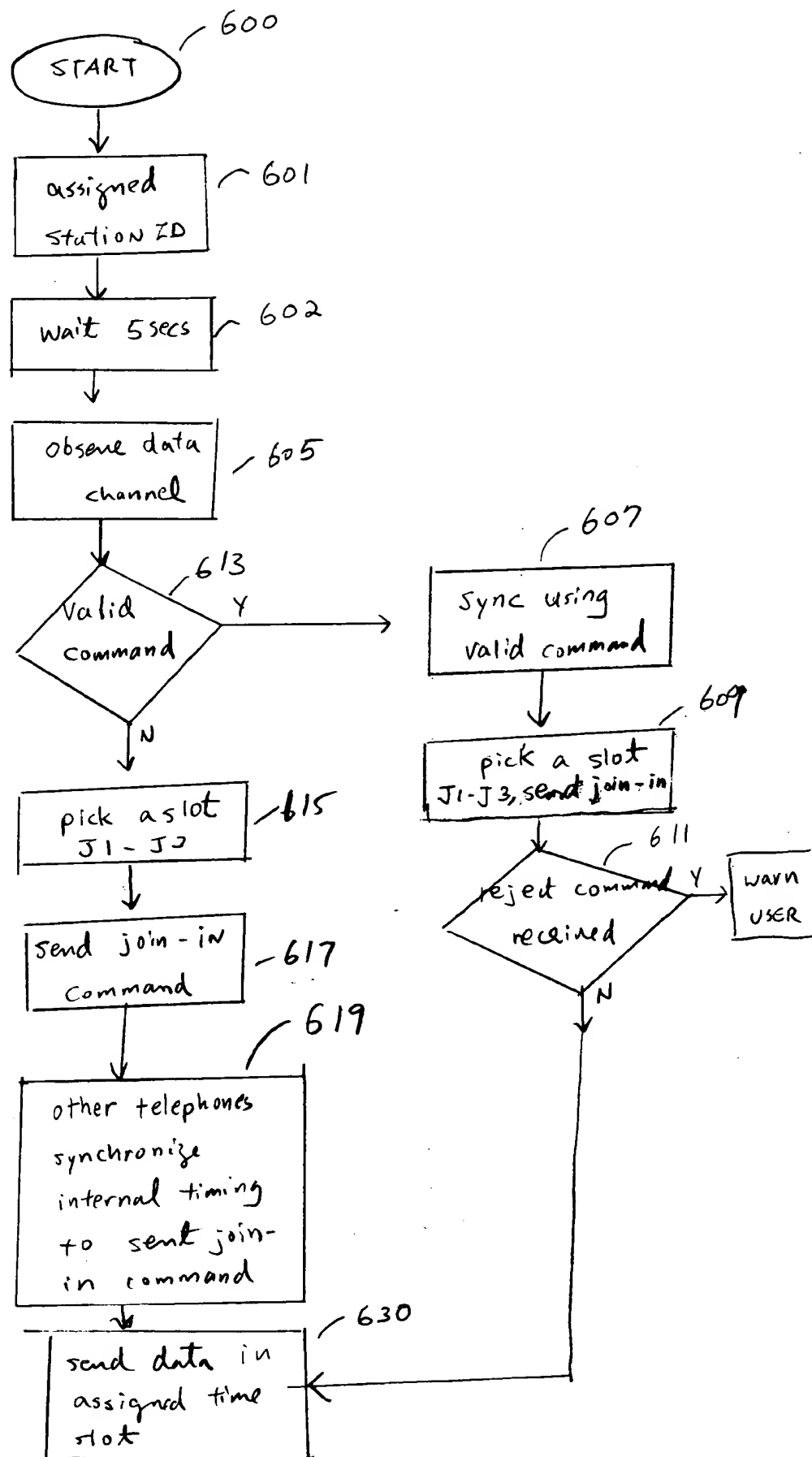
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509

510

L5 & L6 reserved

Fig. 6



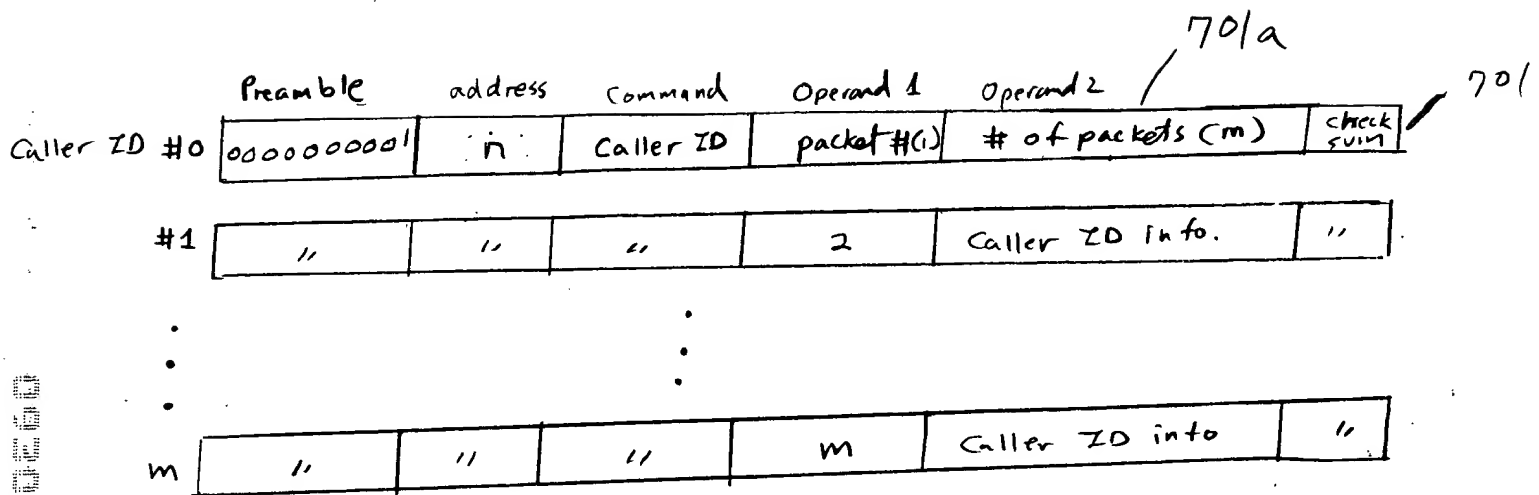


Fig. 7

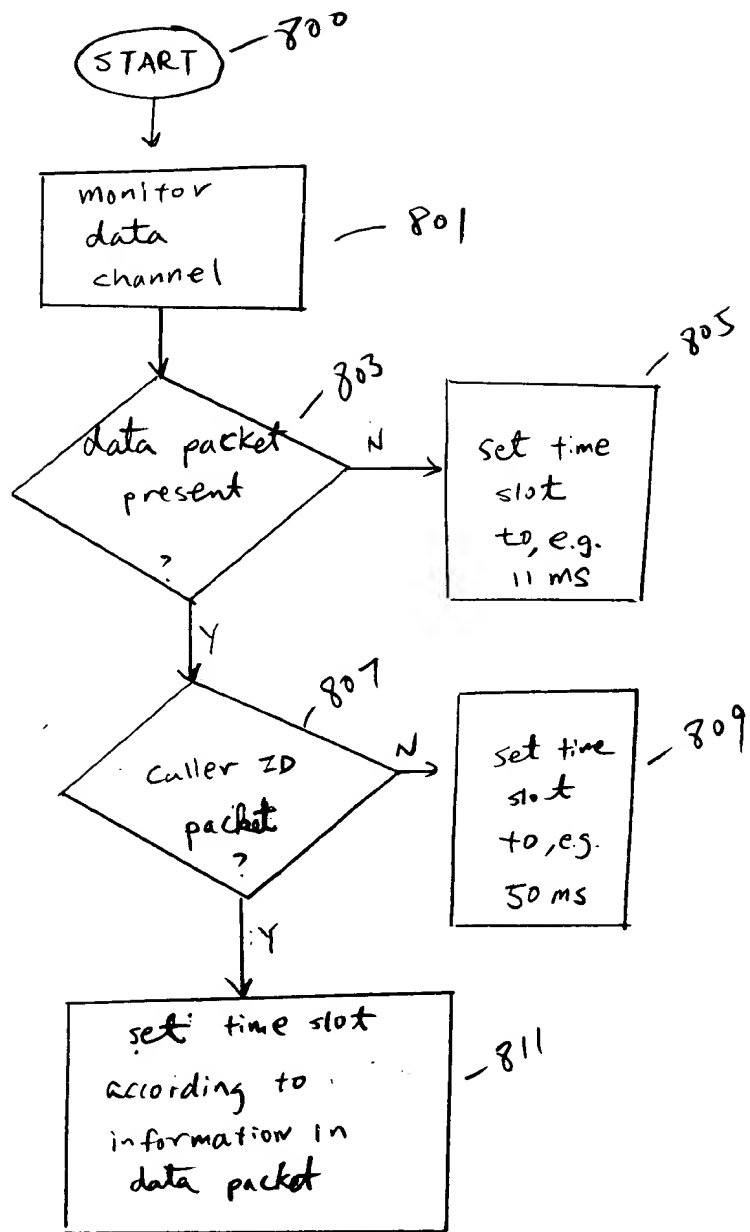


Fig. 8



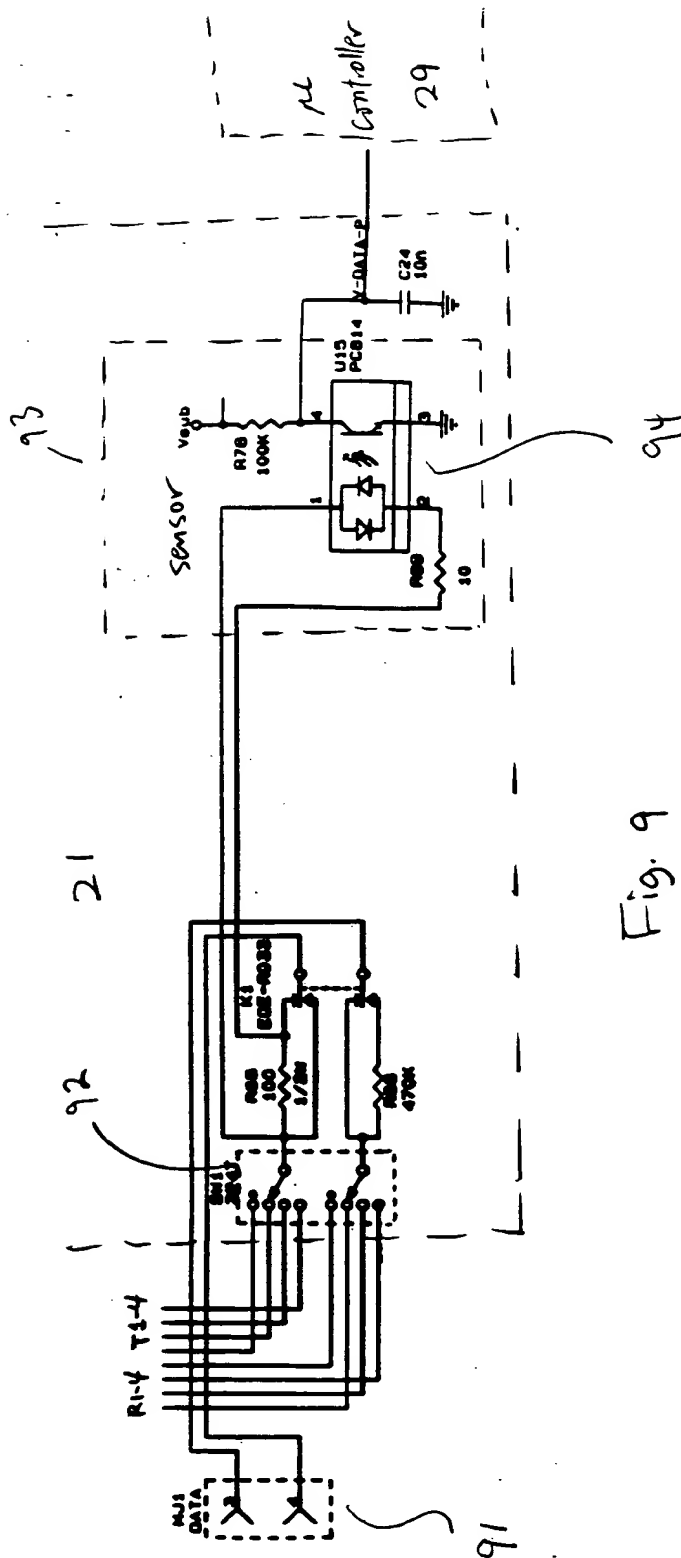


Fig. 9

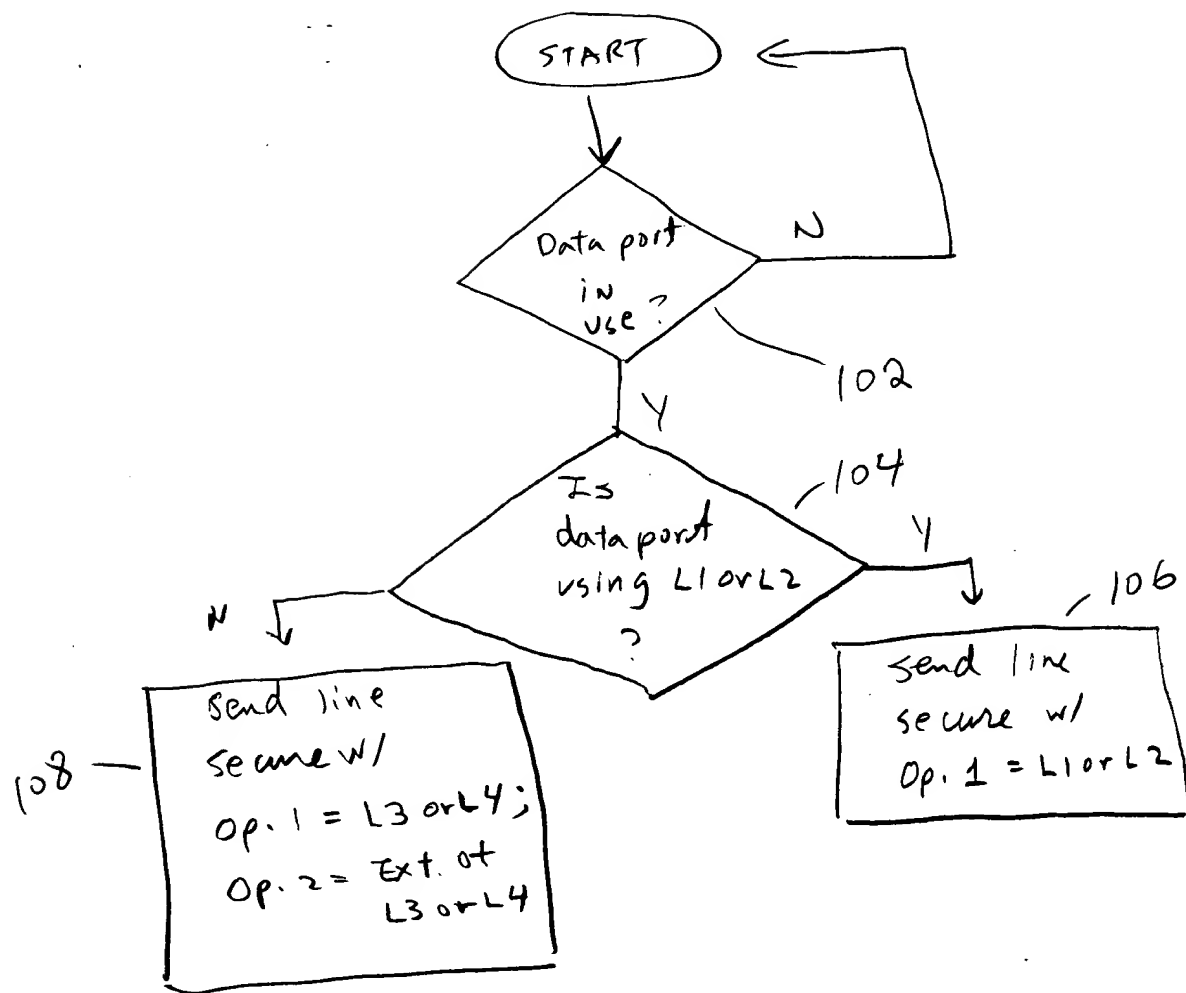


Fig. 10A

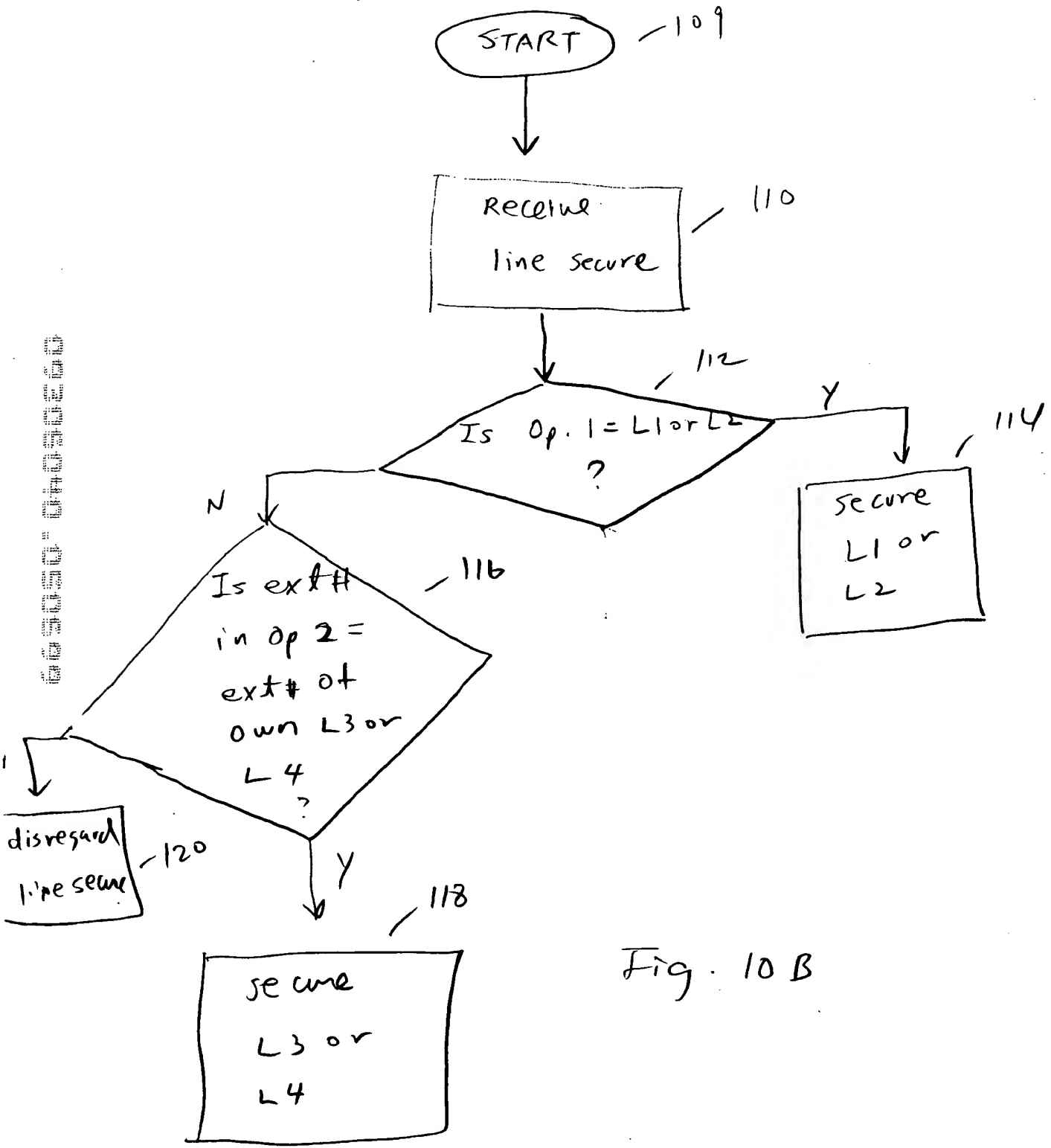


Fig. 10 B

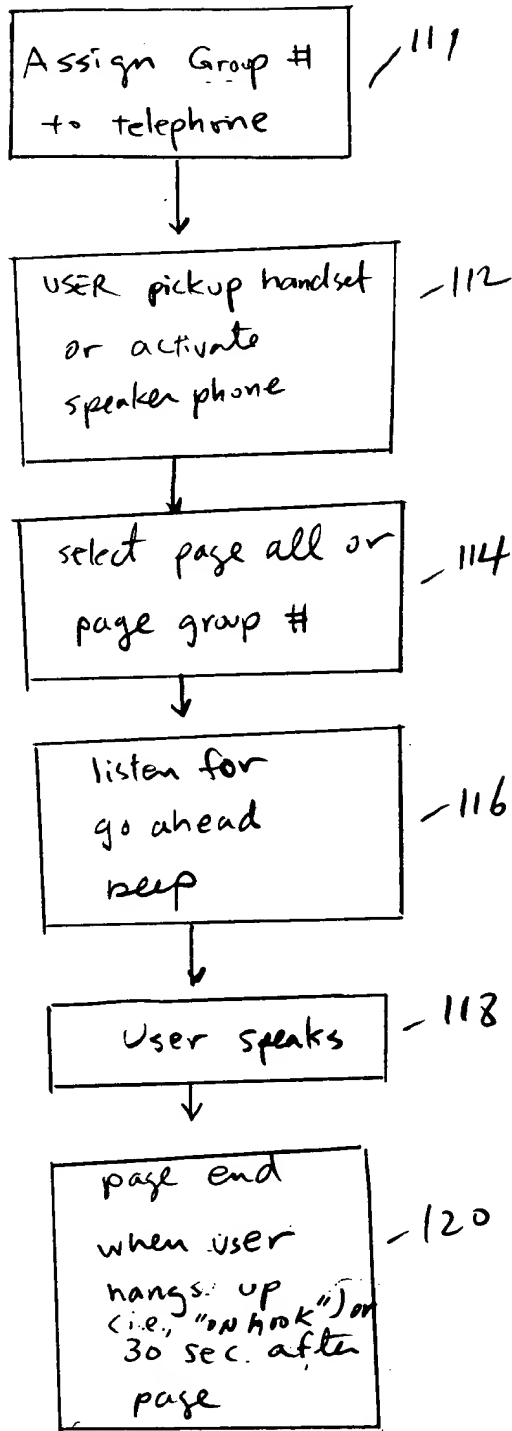


Fig. 11A

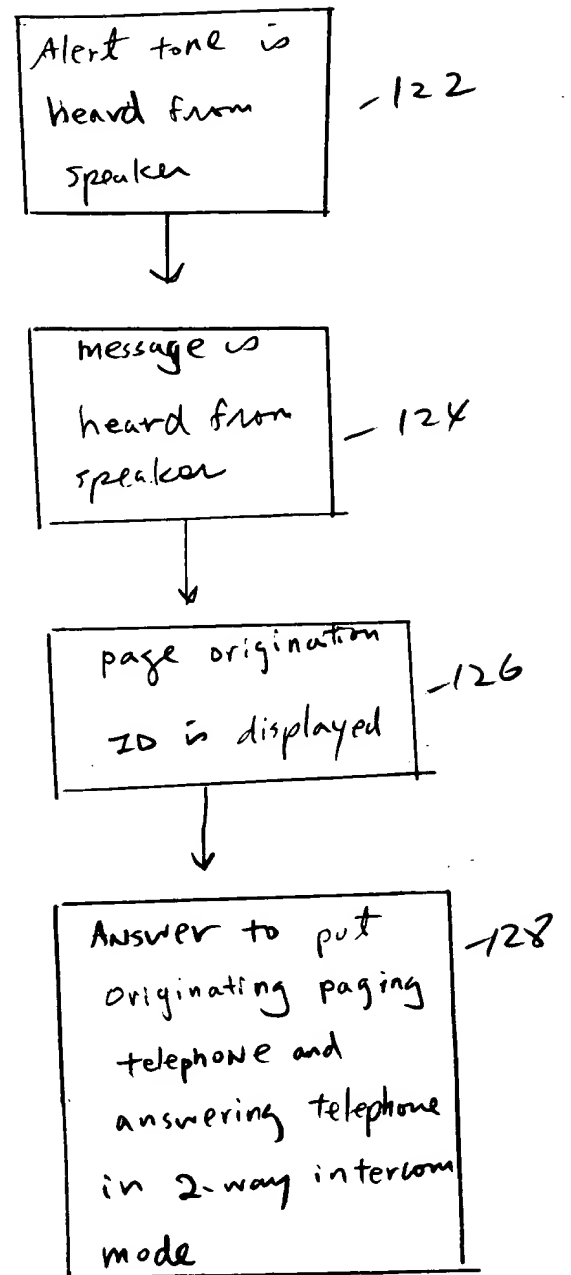


Fig 11B